AMENDMENTS

Entry of the following amendments are requested:

In the Claims

Please cancel claims 1-8 and 15-19.

Under 37 C.F.R. § § 1.121(c)(l)(i), please rewrite claims 9, 10, and 14 as follows:

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9. (Amended) A method for biosynthetically producing commercially valuable compounds, said method comprising the steps of

producing a fertile transgenic plant by introducing into plant cells a DNA construct comprising a promoter, a blocking sequence, and a structural gene coding for a biologically detrimental compound that is commercially valuable, said blocking sequence being flanked by a pair of directly repeated site-specific recombination sequences and wherein the structural gene becomes operably linked to the promoter only after the removal of said blocking sequence;

cross fertilizing said transgenic plant to produce transgenic plants that are homozygous for the gene encoding said biologically detrimental compound;

crossing said homozygous transgenic plant with a plant having a DNA sequence comprising a gene encoding a site-specific recombinase that recognizes said site-specific recombination sequences.

10. (Amended) A method for biosynthetically producing commercially valuable compounds, said method comprising the step of

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promoter, a blocking sequence, and a structural gene coding for a biologically detrimental compound that is commercially valuable, said blocking sequence being flanked by a pair of directly repeated site-specific recombination sequences, with an inducer plant line having a DNA sequence comprising a gene encoding a site-specific recombinase that recognizes said site-specific recombination sequences, wherein the structural gene becomes operably linked to the promoter only after the removal of said blocking sequence in the F1 progeny plants.

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14. (Amended) A method for biosynthetically producing commercially valuable compounds, said method comprising the steps of

producing a maintainer plant line by introducing into plant cells a multi-functional DNA sequence comprising a promoter, a blocking sequence, and a structural gene coding for a biologically detrimental compound that is commercially valuable, said blocking sequence being flanked by a pair of directly repeated site-specific recombination sequences and wherein the structural gene becomes operably linked to the promoter only after the removal of said blocking sequence;

crossing said maintainer plant line, or the progeny of said maintainer plant line with an inducer plant line, said inducer plant line having a DNA sequence comprising a gene encoding a site-specific recombinase that recognizes said site-specific recombination sequences.

Please add the following new claims:

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- 20. (New) The method of claim 9 wherein the step of crossing said homozygous transgenic plant with a plant having a DNA sequence comprising a gene encoding a site-specific recombinase produces an F1 plant or seed that expresses the biologically detrimental compound.
- 21. (New) The method of claim 20, further comprising the step of extracting the compound from the plant or seed.
- 22. (New) The method of claim 9 wherein the promoter is a constitutive promoter.

23. (New) The method of claim 9 wherein the pair of directly repeated site-specific recombination sequences are FRT recombination sequences, and the gene encoding the site-specific recombinase encodes the FLP recombinase and is operably linked to a constitutive promoter.